1020045760 - 1020030

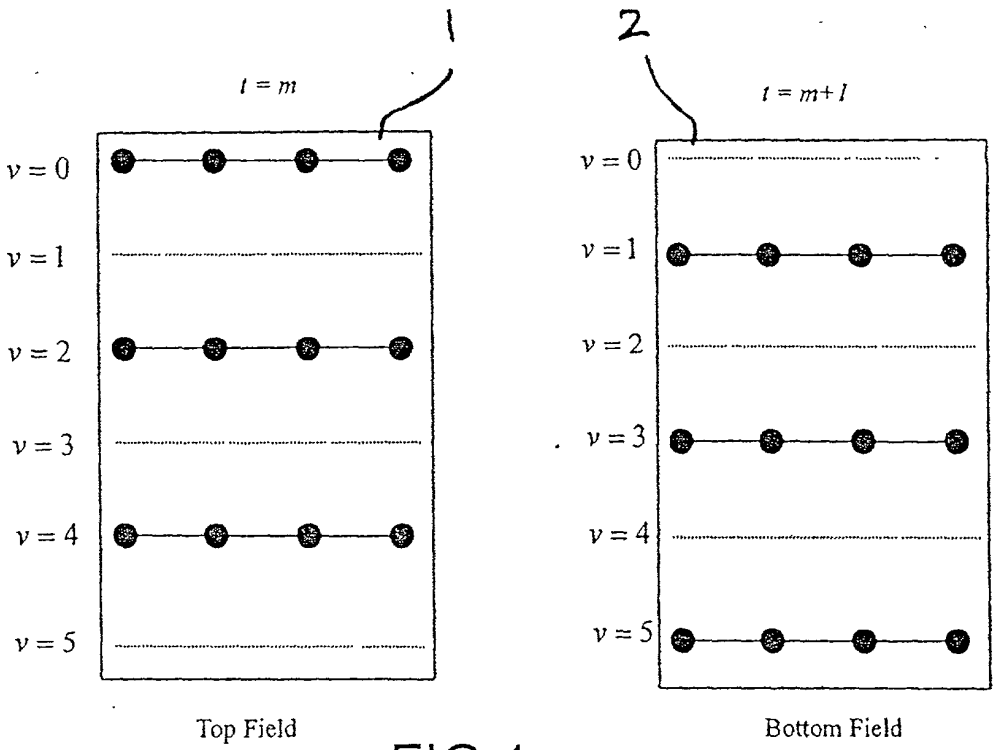

FIG 1

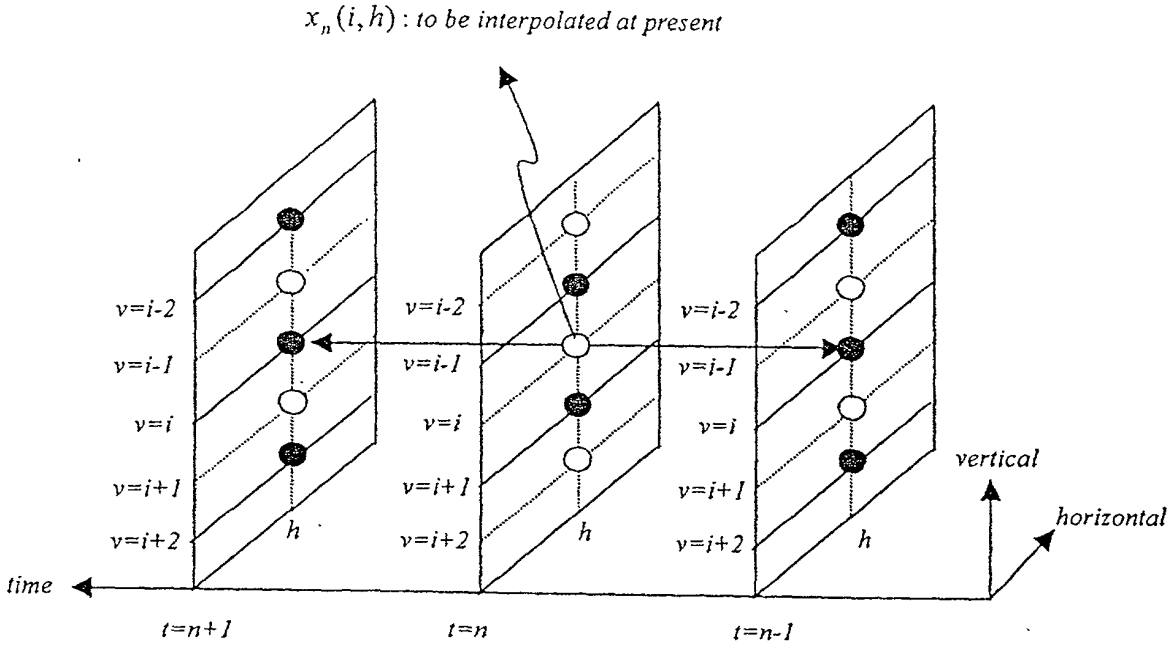

FIG 2

TOE20T*9Z9T000T

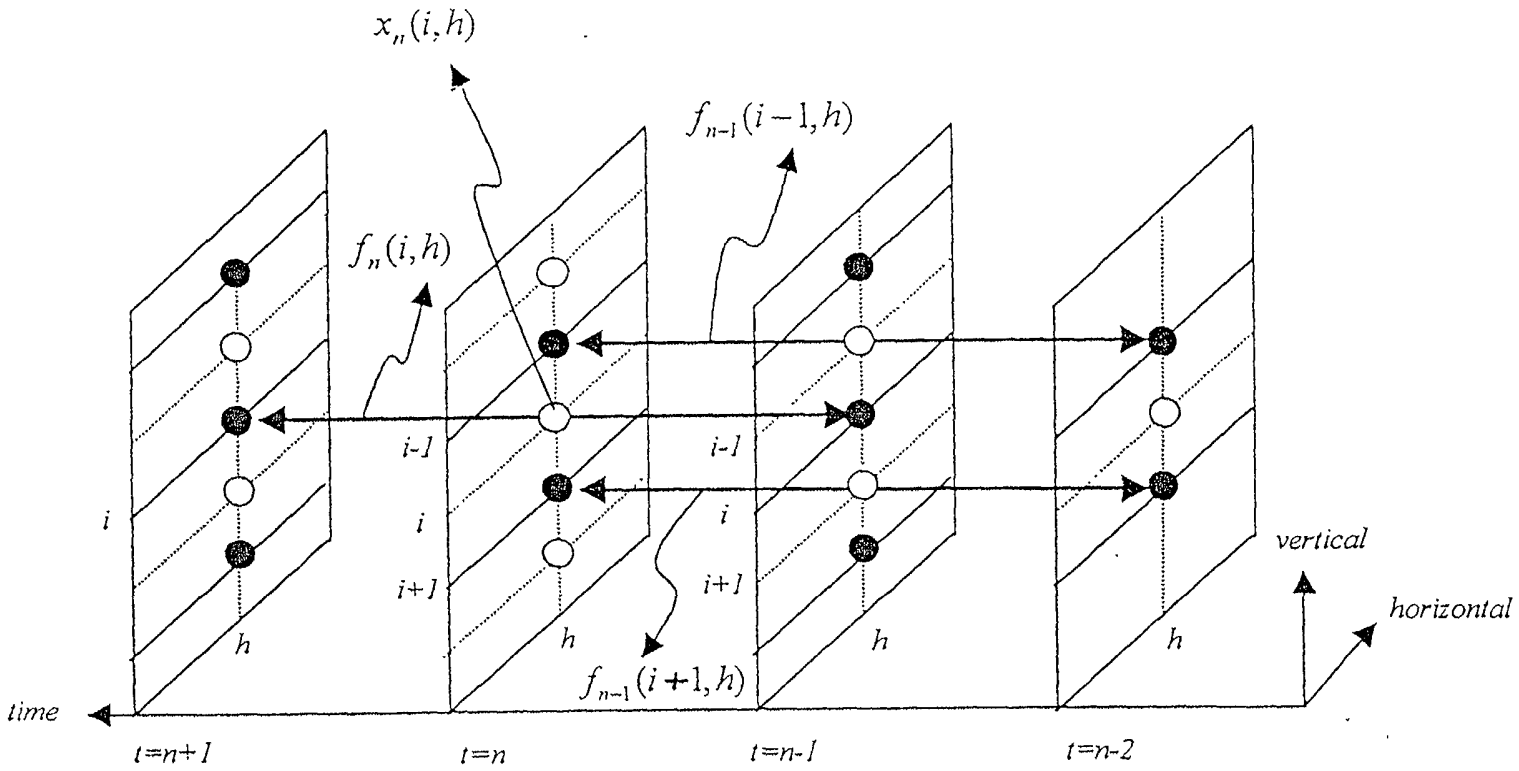

FIG 3

$$\phi_n(i,h) = f_n(i,h) + \min(f_{n-1}(i-1,h), f_{n-1}(i+1,h))$$

$$\phi_n(i,h) = med(f_n(i,h), f_{n-1}(i-1,h), f_{n-1}(i+1,h))$$

$$\phi_n(i,h) = \max(f_n(i,h), f_{n-1}(i-1,h), f_{n-1}(i+1,h))$$

FIG 4

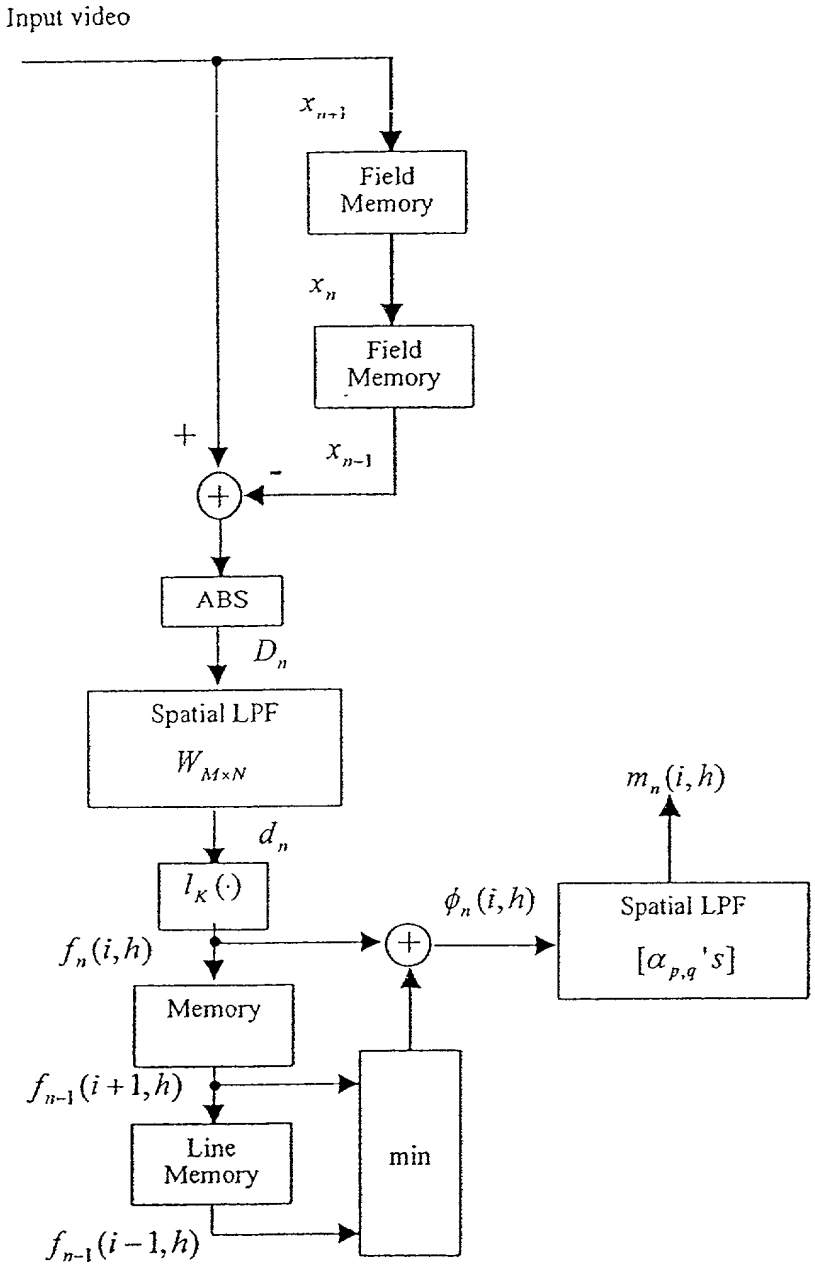
Input video
x_{n+1}
Field Memory
x_n
Field Memory
x_{n-1}
+
-
ABS
D_n
Spatial LPF
$W_{M\times N}$
d_n
$l_K(\cdot)$
$f_n(i,h)$
$\phi_n(i,h)$
$m_n(i,h)$
Spatial LPF
$[\alpha_{p,q}'s]$
Memory
$f_{n-1}(i+1,h)$
Line Memory
$f_{n-1}(i-1,h)$
min

FIG 5

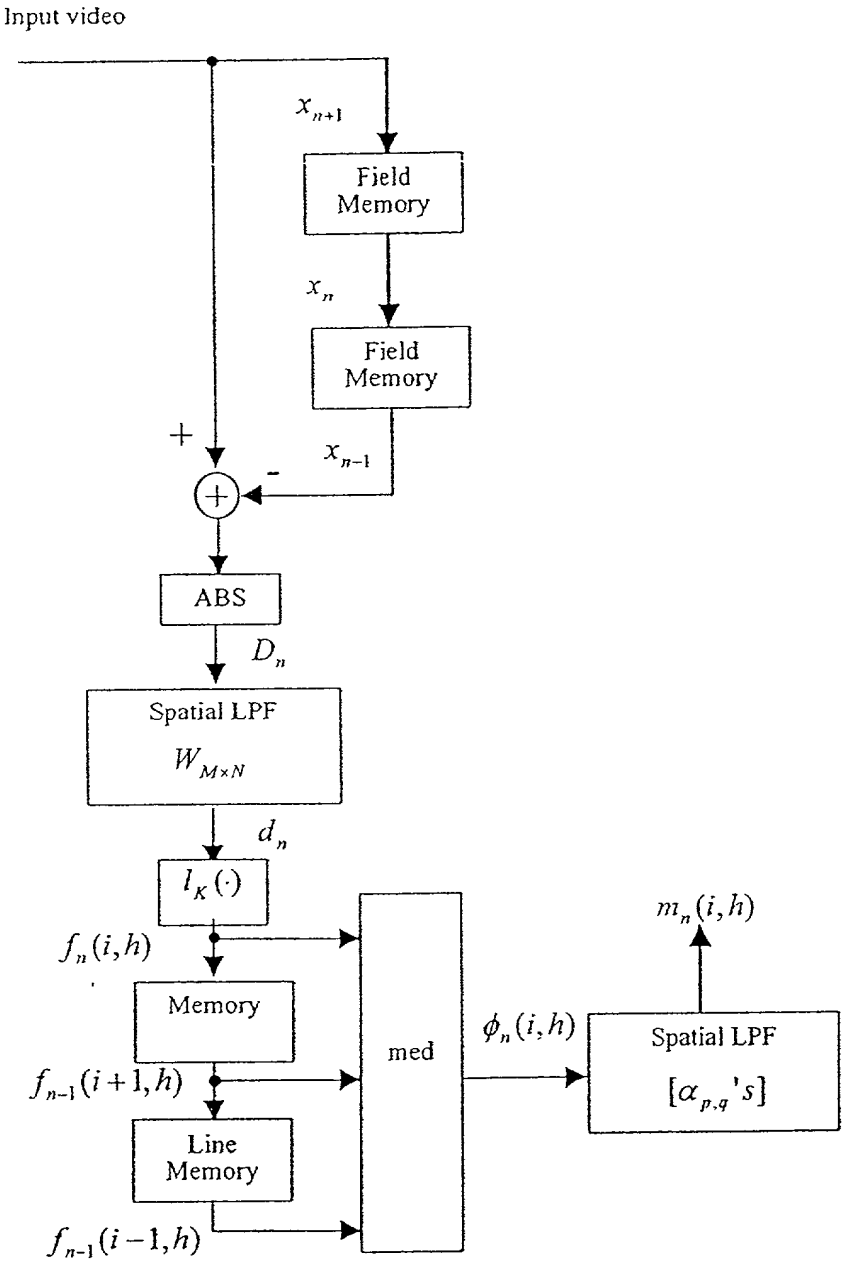

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FIG 6

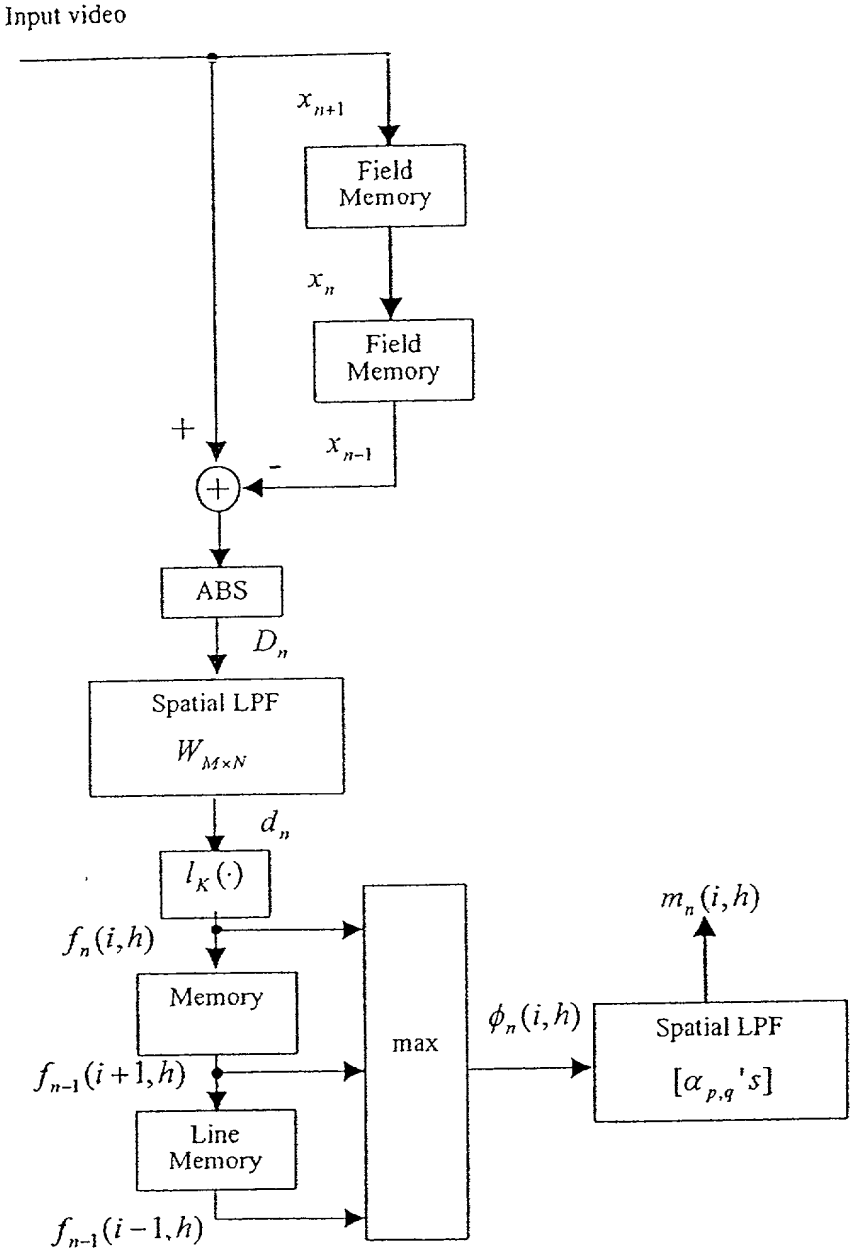

Input video
x_{n+1}
Field Memory
x_n
Field Memory
x_{n-1}
+
-
ABS
D_n
Spatial LPF
$W_{M\times N}$
d_n
$l_K(\cdot)$
$f_n(i,h)$
Memory
$f_{n-1}(i+1,h)$
Line Memory
$f_{n-1}(i-1,h)$
max
$\phi_n(i,h)$
Spatial LPF
$[\alpha_{p,q}'s]$
$m_n(i,h)$

FIG 7

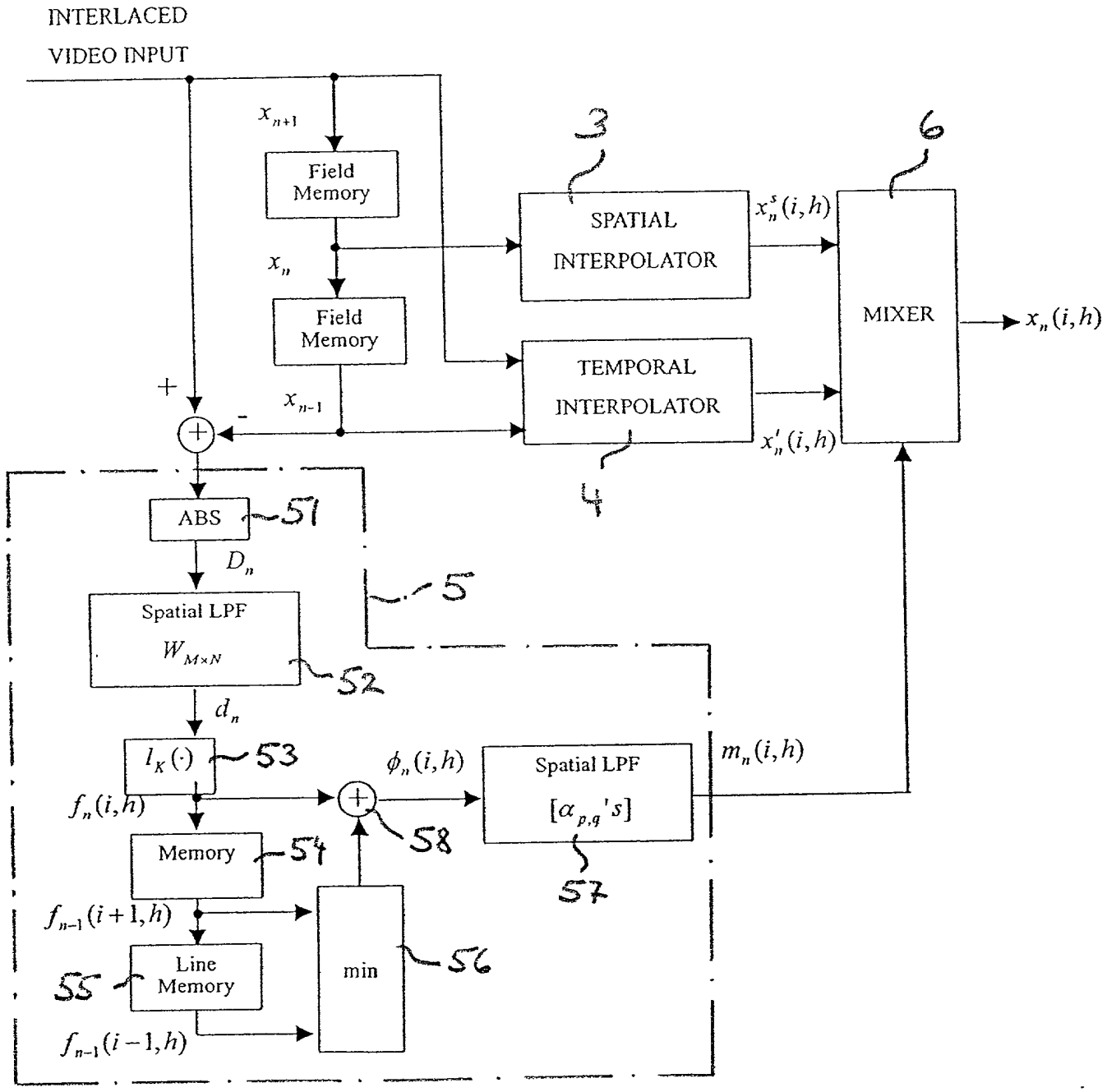

INTERLACED
VIDEO INPUT
x_{n+1}
Field Memory
x_n
Field Memory
x_{n-1}
+
-
3
SPATIAL INTERPOLATOR
$x_n^s(i,h)$
TEMPORAL INTERPOLATOR
$x_n'(i,h)$
4
6
MIXER
$x_n(i,h)$
ABS
51
D_n
5
Spatial LPF
$W_{M\times N}$
52
d_n
$l_K(\cdot)$
53
$f_n(i,h)$
$\phi_n(i,h)$
58
Spatial LPF
$[\alpha_{p,q}'s]$
57
$m_n(i,h)$
Memory
54
$f_{n-1}(i+1,h)$
55
Line Memory
$f_{n-1}(i-1,h)$
min
56

FIG 8

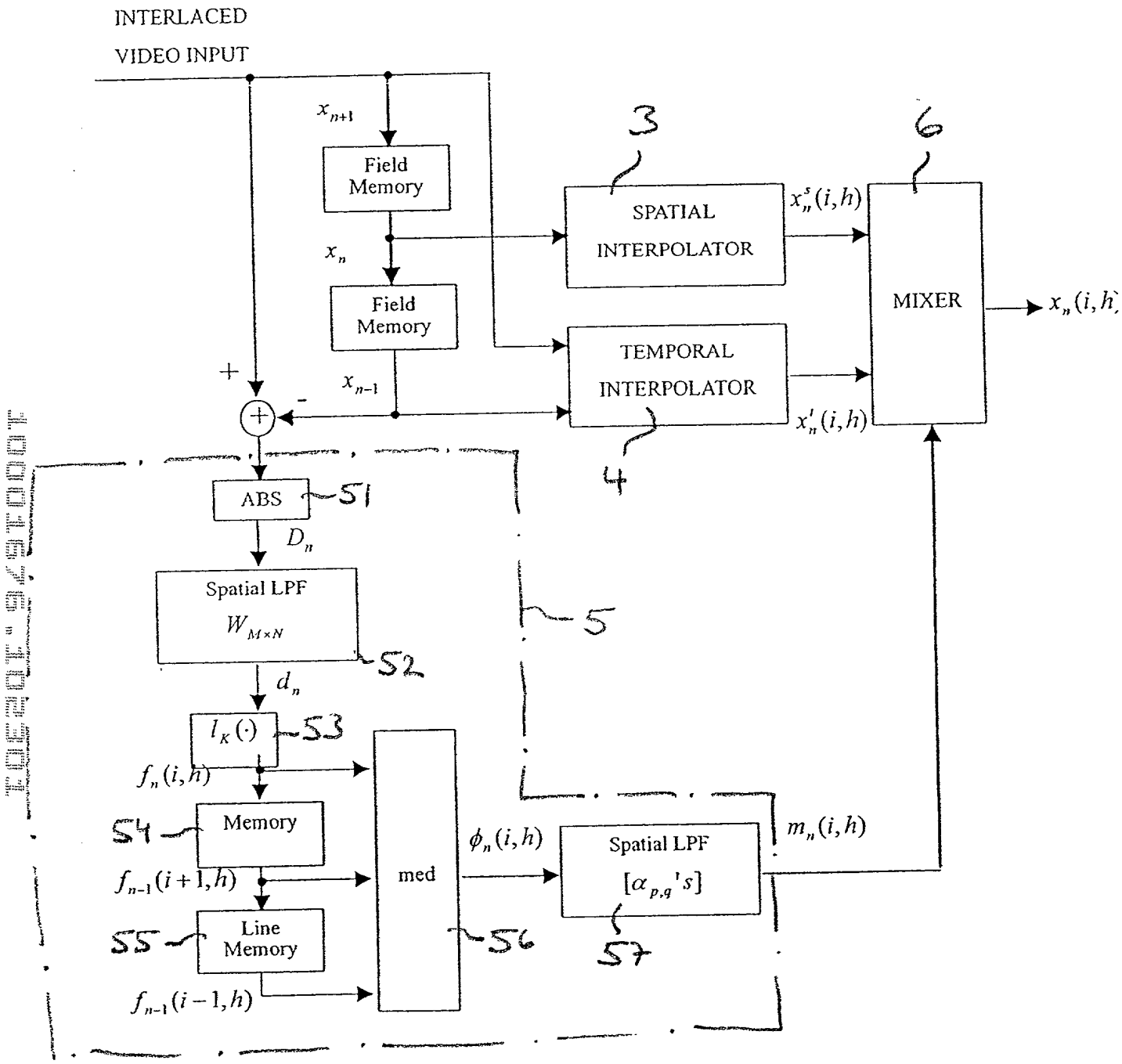
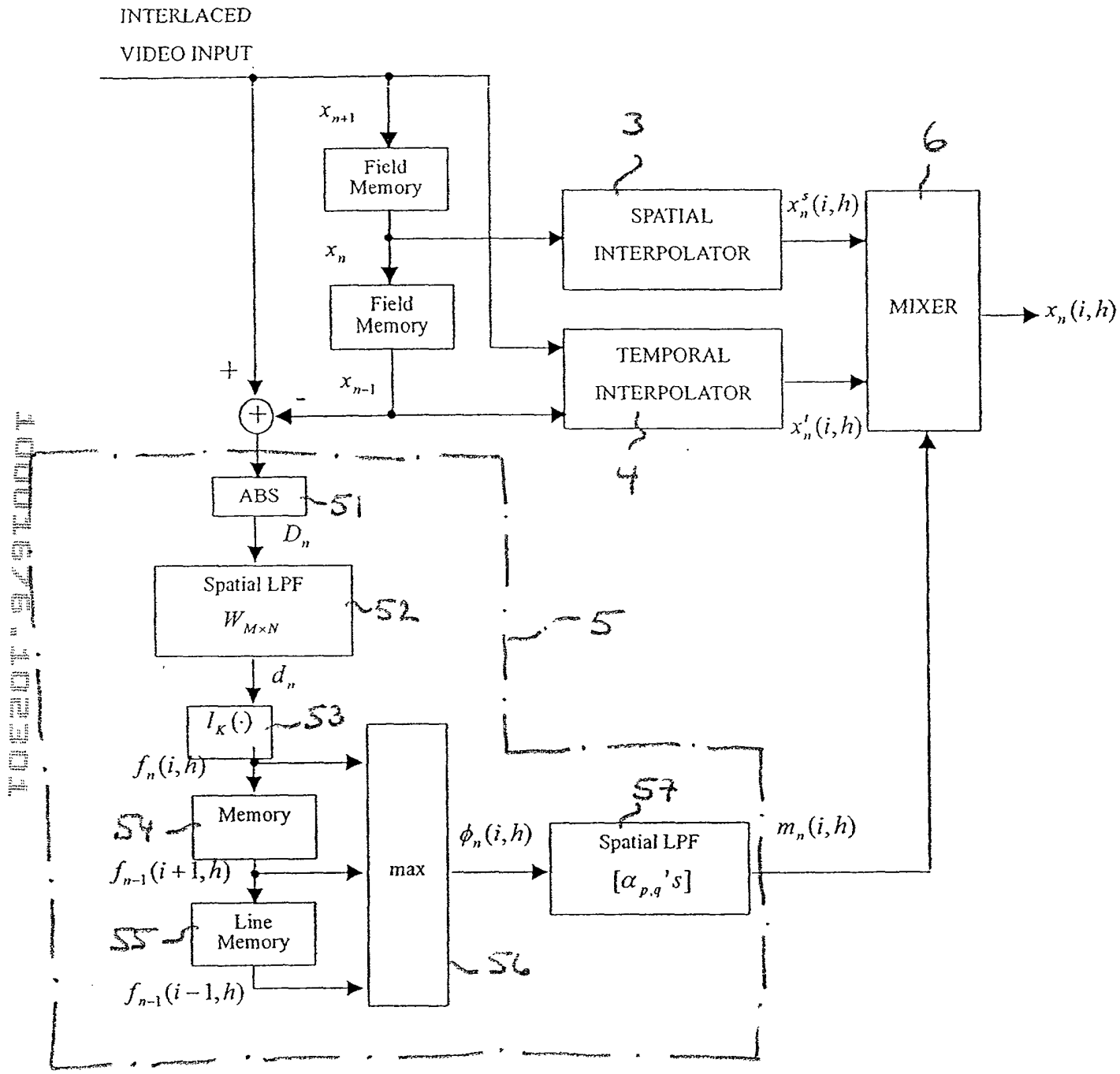

INTERLACED
VIDEO INPUT
x_{n+1}
Field Memory
x_n
Field Memory
x_{n-1}
3
SPATIAL INTERPOLATOR
$x_n^s(i,h)$
TEMPORAL INTERPOLATOR
$x_n^t(i,h)$
4
6
MIXER
$x_n(i,h)$
+
-
ABS
51
D_n
Spatial LPF
$W_{M\times N}$
52
5
d_n
$l_K(\cdot)$
53
$f_n(i,h)$
54
Memory
$f_{n-1}(i+1,h)$
55
Line Memory
$f_{n-1}(i-1,h)$
med
56
$\phi_n(i,h)$
Spatial LPF
$[\alpha_{p,q}'s]$
57
$m_n(i,h)$

FIG 9


INTERLACED
VIDEO INPUT
x_{n+1}
Field Memory
x_n
Field Memory
x_{n-1}
+
-
3
SPATIAL INTERPOLATOR
$x_n^s(i,h)$
TEMPORAL INTERPOLATOR
$x_n^t(i,h)$
4
6
MIXER
$x_n(i,h)$
ABS
51
D_n
Spatial LPF
$W_{M\times N}$
52
d_n
$l_K(\cdot)$
53
$f_n(i,h)$
5
54
Memory
$f_{n-1}(i+1,h)$
55
Line Memory
$f_{n-1}(i-1,h)$
max
56
$\phi_n(i,h)$
57
Spatial LPF
$[\alpha_{p,q}'s]$
$m_n(i,h)$